



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

**Arch Aluminum & Glass Company
10200 NW 67th Street
Tamarac, FL 33321**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "IFG 5000" Flush Glazed Aluminum Storefront System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **09-109**, titled "IFG 5000 Series Storefront Window Large & Small Missile Impact Rated", sheets 1 through 5 of 5, dated 06/01/09, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # **05-0829.07** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 09-0728.02
Expiration Date: October 21, 2014
Approval Date: October 28, 2009
Page 1**

Arch Aluminum & Glass Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **09-109**, Sheets 1 through 5 of 5, titled "IFG 5000 Series Storefront Window Large & Small Missile Impact Rated", dated 06/01/09, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E.

B. TESTS


1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3981**, dated 01/27/04, signed and sealed by Edmundo Largaespada, P.E.
"Submitted under NOA# 04-0831.03"
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4184**, dated 06/18/04, signed and sealed by Edmundo Largaespada, P.E.
"Submitted under NOA# 04-0831.03"

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 06/01/09, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0728.02
Expiration Date: October 21, 2014
Approval Date: October 28, 2009

Arch Aluminum & Glass Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

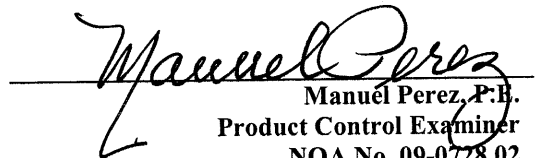
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
3. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/08, expiring on 04/17/13.

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated July 7, 2009, signed and sealed by Pedro De Figueiredo, P.E.

G. OTHERS

1. Notice of Acceptance No. **05-0829.07**, issued to Arch Aluminum & Glass Co., Inc. for their Series IFG-5000 Aluminum Storefront, approved on 12/08/05 and expiring on 10/21/09.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0728.02
Expiration Date: October 21, 2014
Approval Date:

INDEX:

SHEET	DESCRIPTION
1	GENERAL NOTES, INDEX, TYPICAL ELEVATION
2	SECTIONS DETAILS & FRAMING ASSEMBLY
3	SECTIONS & GLAZING DETAILS
4	FRAMING ANCHORAGE DESIGN TABLES
5	FRAMING COMPONENTS & BILL OF MATERIALS

GENERAL NOTES:

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 EDITION - (HIGH VELOCITY SECTION)

2- DEFINITION: THIS PRODUCT IS AN ALUMINUM FIXED STOREFRONT TYPE WINDOW WITH LARGE MISSILE IMPACT RESISTANT LAMINATED GLASS.

3- POSTING:
 * IFG - 5000 SERIES - IMPACT
 ARCH ALUMINUM & GLASS CO., INC.
 TAMARAC - BROWARD COUNTY - FLORIDA
 DADE COUNTY PRODUCT CONTROL APPROVED *

4- DESIGN LOADS: LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE APPROVED PRESSURE OF ± 85 PSF.

5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T6 OR AS INDICATED AND GLAZING TO BE LAMINATED IMPACT RESISTANT GLASS AS SPECIFIED ON THIS APPROVAL.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THIS CURRENT SET OF DRAWINGS.

7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

7.1- THE STABILITY OF THE STRUCTURE WHERE THE UNIT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

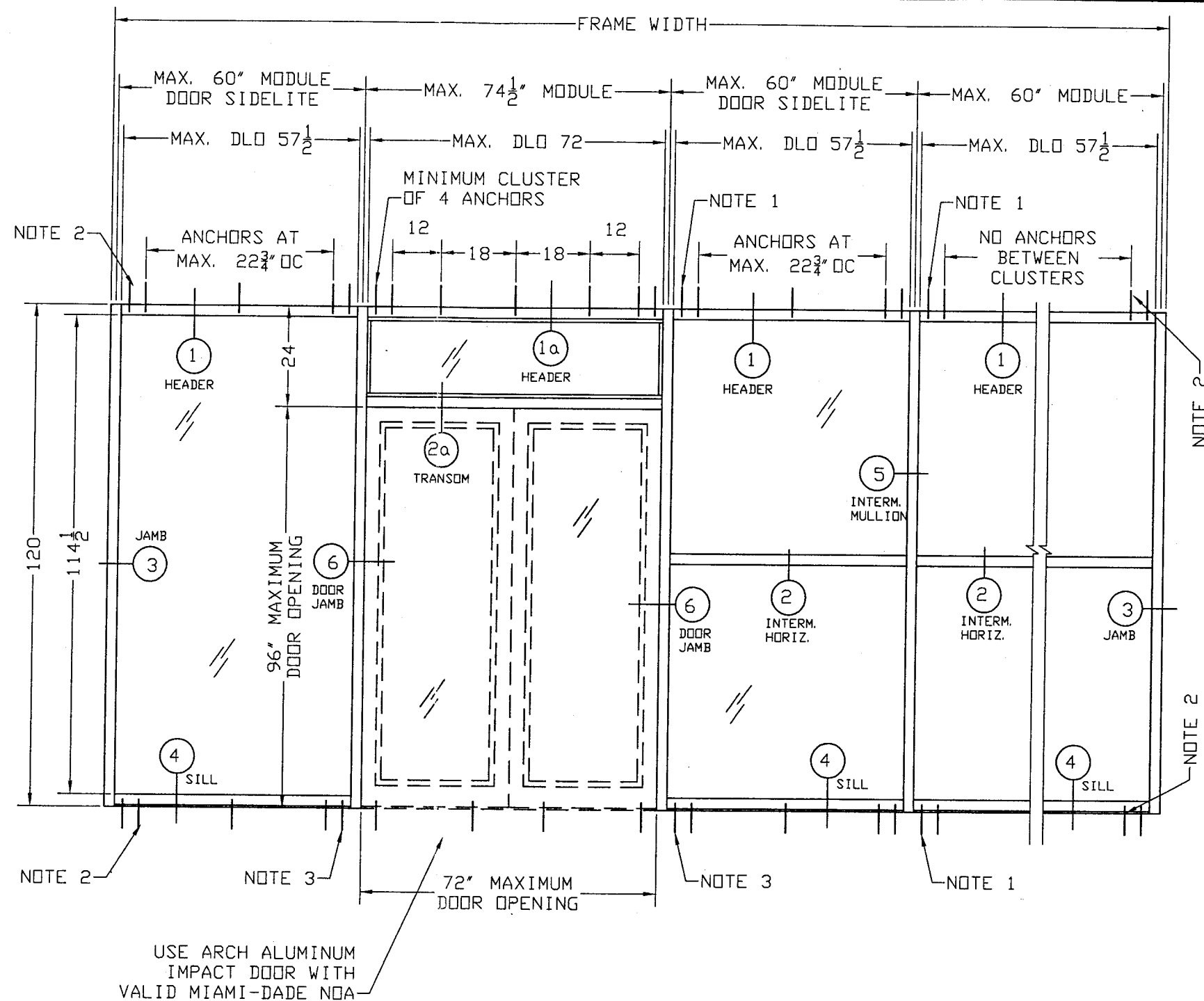
8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD ANCHORS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

USER INSTRUCTIONS:

1- DETERMINE PROJECT DESIGN WIND LOAD PRESSURES AS PER ITEM 4 OF GENERAL NOTES, SHEET 1.

2- CALCULATE QUANTITY AND TYPE OF ANCHOR TO BE USED FOR A GIVEN TRIBUTARY MODULE WIDTH X MODULE HEIGHT AS PER TABLES 1.1 AND 1.2 ON SHEET 4.

3- IF DOORS ARE PART OF THE ELEVATION, INCORPORATE A VALID NOTICE OF ACCEPTANCE SHOWING DOOR DETAILS AND SPECIFICATIONS.



NOTES:

NOTE 1 - INTERMEDIATE MULLION AND DOOR MULLION TO USE CLUSTERS OF MINIMUM 4 ANCHORS TO BE SELECTED AS PER TABLE 1.1 ON SHEET 4.

NOTE 2 - JAMB MULLION TO USE CLUSTER OF MINIMUM 2 ANCHORS TO BE SELECTED AS PER TABLE 1.2 ON SHEET 4.

NOTE 3 - DOOR MULLION TO USE CLUSTER OF MINIMUM 2 ANCHORS AT SILL TO BE SELECTED AS PER TABLE 1.2 ON SHEET 4.

ALLOWABLE DESIGNED PRESSURE
 ± 85 PSF

LARGE AND SMALL
 MISSILE IMPACT RESISTANT

MANUFACTURER:



Aluminum & Glass Co. Inc.

10200 NW 67th STREET
 TAMARAC - FLORIDA
 TEL.: (800) 432-8132
 FAX.: (954) 724-9293



IFG 5000 SERIES
 STOREFRONT WINDOW
 LARGE & SMALL MISSILE IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 ENGCO@AOL.COM

JUL 07 2009

Engineer Seal
 Pedro De Figueiredo
 PE 52609

DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 09-0728.02
 Expiration Date Oct. 21, 2014
 By *Manuel Perez*
 Miami Dade Product Control
 Division

Date: 06/01/09
 Scale: NA
 Design by: PPMF

Drawing Number
 09-109

SHEET
 1 of 5

E. D. = 1" FOR WOOD
E. D. = 2 1/4" FOR CONCRETE
E. D. = 3/4" FOR METAL

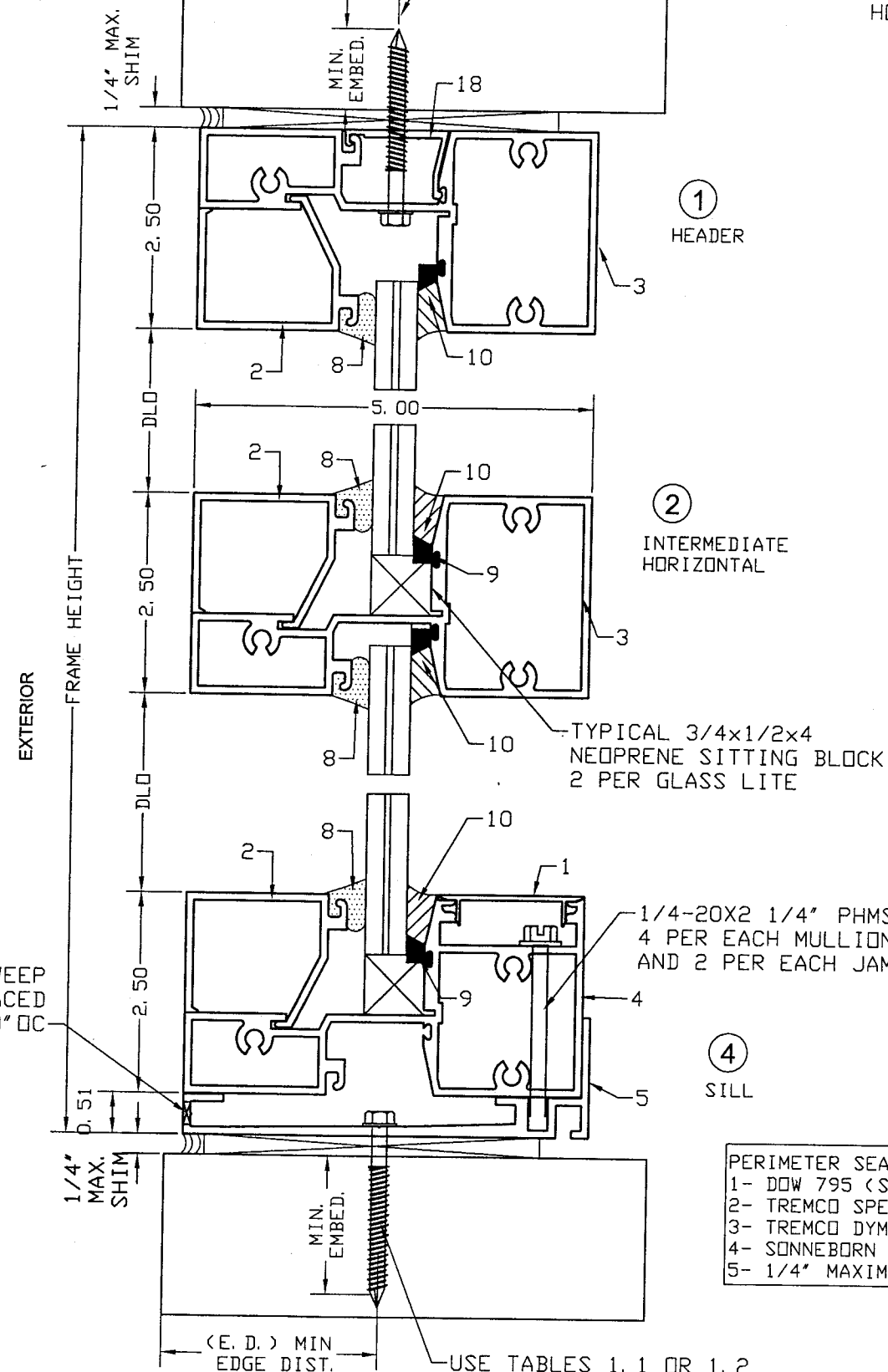
USE TABLES 1.1 OR 1.2
ON SHEET 4 FOR QUANTITY
AND SELECTION

SECTION DETAILS

ASSEMBLY SCREWS
1/4-20x1 1/2" PHSMS
3 PER EA VERTICAL/
HORIZONTAL CONNECTION

(5) TYPICAL INTERM.
MULLION

(3) JAMB MULLION



(1) HEADER

(2) INTERMEDIATE
HORIZONTAL

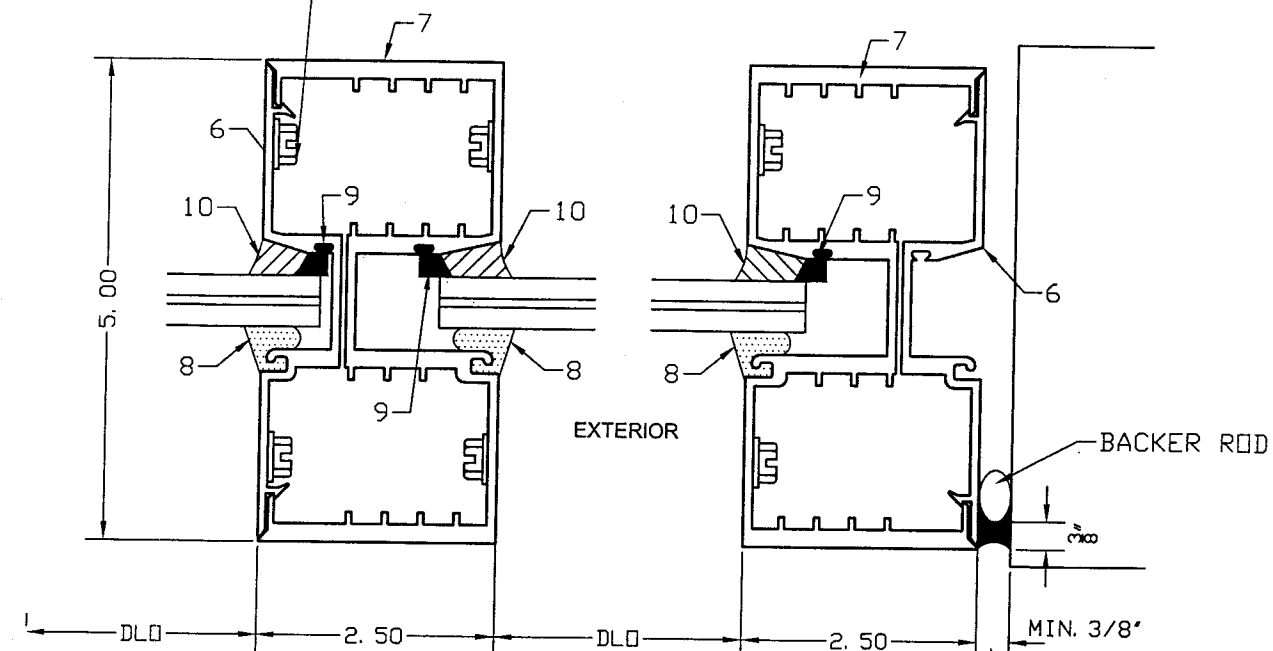
(4) SILL

TYPICAL 3/4x1/2x4
NEOPRENE SITTING BLOCK
2 PER GLASS LITE

1/4-20x2 1/4" PHMS
4 PER EACH MULLION
AND 2 PER EACH JAMB

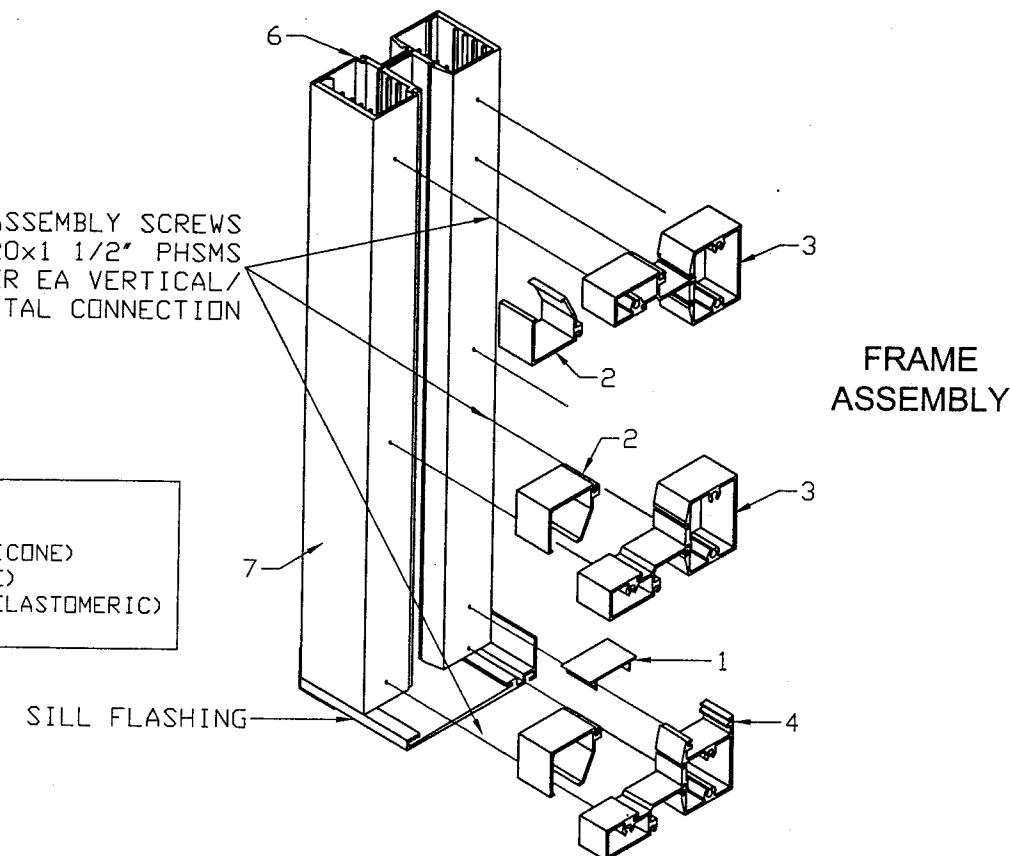
PERIMETER SEALANT OPTIONS:
1- DOW 795 (SILICONE)
2- TREMCO SPECTREM 2 & 3 (SILICONE)
3- TREMCO DYMNIC FC (URETHANE)
4- SONNEBORN SOLOLASTIC 150 (ELASTOMERIC)
5- 1/4" MAXIMUM GAP

USE TABLES 1.1 OR 1.2
ON SHEET 4 FOR QUANTITY
AND SELECTION



CONTINUOUS BEAD OF
SEALANT CALCULATED
BASED ON ASTM C1472-06
SEALANT WITH 50% MOVEMENT

ASSEMBLY SCREWS
1/4-20x1 1/2" PHSMS
3 PER EA VERTICAL/
HORIZONTAL CONNECTION



E. D. = 1" FOR WOOD
E. D. = 2 1/4" FOR CONCRETE
E. D. = 3/4" FOR METAL

MANUFACTURER:



Aluminum & Glass Co. Inc.

10200 NW 67th STREET
TAMARAC - FLORIDA
TEL.: (800) 432-8132
FAX.: (954) 724-9293



IFG 5000 SERIES
STOREFRONT WINDOW
LARGE & SMALL MISSILE IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33313
ENGCO@AOL.COM

JUL 07 2009

Engineer Seal
Pedro De Figueiredo
PE 52609

DRAFTING:

PK DRAFTING & MORE

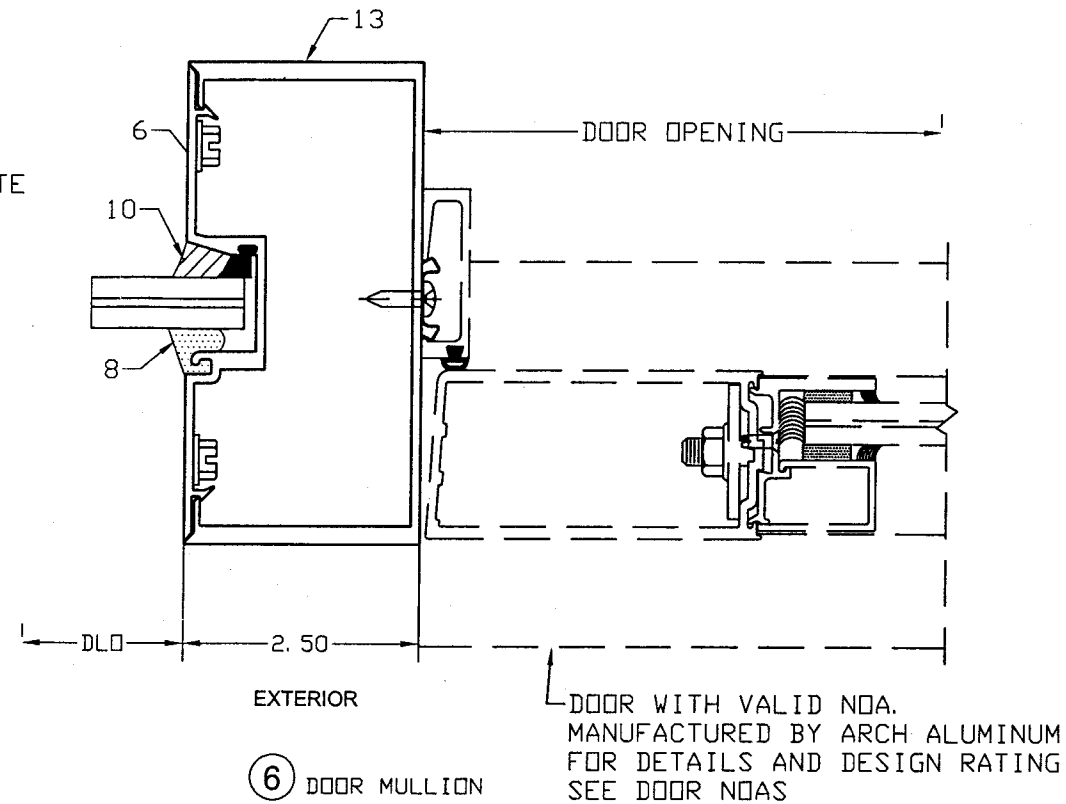
MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0725.02
Expiration Date Oct. 21, 2014
By *Manuel Pera*
Miami Dade Product Control
Division

Date: 06/01/09
Scale: NA
Design by: PPMF

Drawing Number
09-109

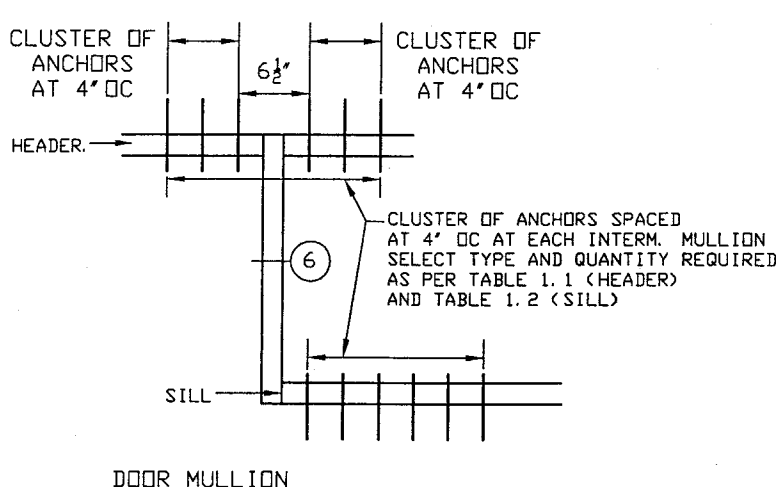
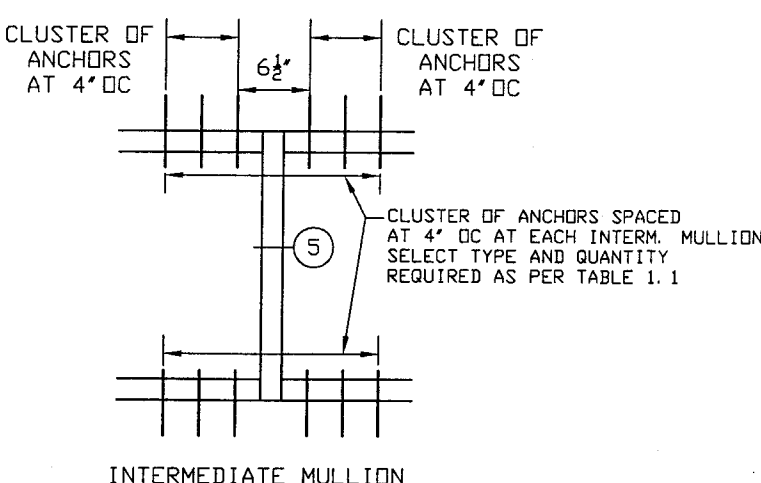
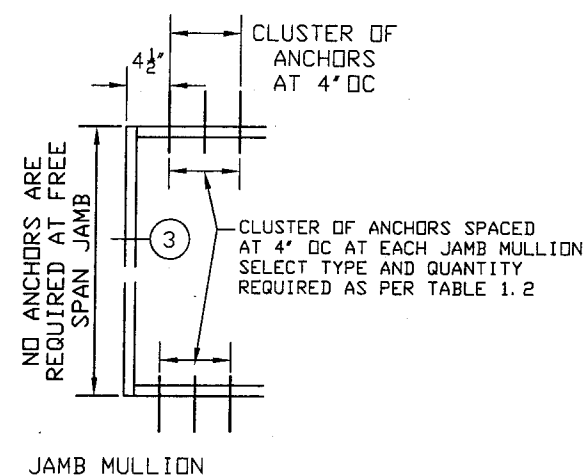
SHEET
2 of 5



TYPICAL FRAMING
EXTERIOR GLAZING DETAIL

SHEET
3 of 5

MULTIPLE MODULE FRAME ANCHORAGE LAY-OUT
INTERMEDIATE MULLION: 5, DOOR MULLION: 6 AND JAMB MULLION: 3



ANCHOR SCHEDULE: (MIN 2 1/2" EDGE DISTANCE)			
TYPE	DESCRIPTION	EMBEDMENT	SUBSTRATE
A	#14 SS WOOD SCREWS	1 1/2"	PT WOOD (SG) = .55
B	1/4" ULTRACON	1 3/4"	2700 PSI CONCRETE
C	1/4-20 DRIL-FLEX SCREWS	1/8"	6063-T5 ALUMINUM
D	1/4-20 DRIL-FLEX SCREWS	1/8"	ASTM-A36 STEEL
E	5/16" TAPCON	1 3/4"	2899 PSI CONCRETE

NOTES:
1- ANCHORS B, C, AND D ARE MANUFACTURED BY ELCO
2- ANCHORS E IS MANUFACTURED BY ITW BUILDDEX
3- ANCHOR A IS A GENERIC STAINLESS STEEL 300 SERIES
4- ANCHOR B AND E CAN BE USED INTO WOOD AS AN ALTERNATE
4- ANCHORS ARE REQUIRED ONLY AT SILL AND HEADER LOCATIONS
5- JAMBS ARE NOT ANCHORED TO SIDE STRUCTURE. (SEE TYPICAL ANCHOR LAY-OUT)
6- WHEN REQUIRED DUE TO OVERLAPPING, THE ANCHOR SPACING FOR ANCHOR TYPE A SHALL BE REDUCED FROM 4' OC TO 2' OC.

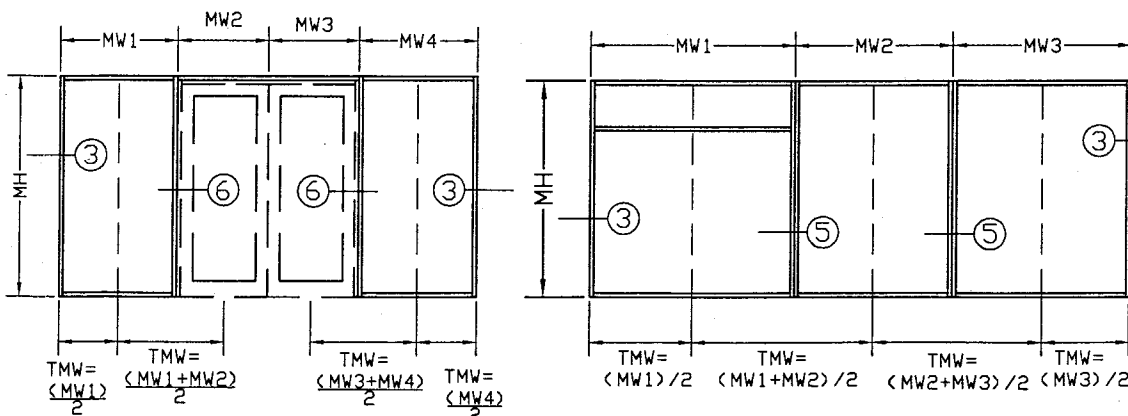
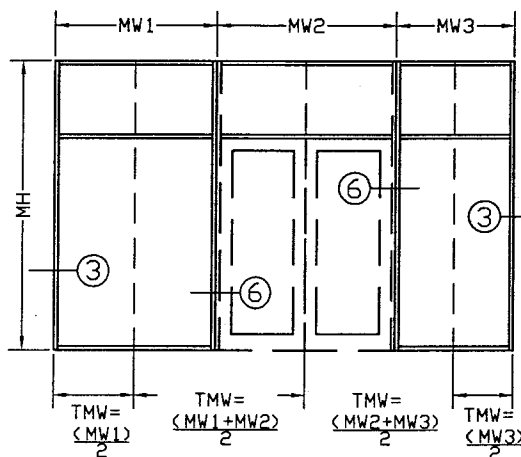
TABLE 1.1 - NUMBER OF ANCHORS REQUIRED
HEADER AND SILL INTERM. MULLION DETAIL 5

TMW	ANCHOR TYPE	Pd= 85 psf				Pd=50 psf			
		Module height				Module height			
		84	96	108	120	84	96	108	120
24	A	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
30	A	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
48	A	6	6	6	8	4	4	4	4
	B	4	4	4	4	4	4	4	4
	C	4	4	4	6	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	4	4	4	4	4
67	A	8	8	8	10	4	6	6	6
	B	4	6	6	6	4	4	4	4
	C	6	6	6	6	4	4	4	4
	D	4	4	4	4	4	4	4	4
	E	4	4	4	6	4	4	4	4

TABLE 1.2 - NUMBER OF ANCHORS REQUIRED
HEADER AND SILL JAMB MULLION DETAIL 3
AND SILL DOOR MULLION DETAIL 6

TMW	ANCHOR TYPE	Pd= 85				Pd= 50			
		Module height				Module height			
		84	96	108	120	84	96	108	120
24	A	3	3	3	4	2	2	2	2
	B	2	2	2	2	2	2	2	2
	C	2	2	2	3	2	2	2	2
	D	2	2	2	2	2	2	2	2
	E	2	2	2	2	2	2	2	2
30	A	3	4	4	4	2	2	3	3
	B	2	2	3	3	2	2	2	2
	C	2	3	3	3	2	2	2	2
	D	2	2	2	2	2	2	2	2
	E	2	2	2	2	2	2	2	2
48	A	5	6	6	7	3	3	4	4
	B	3	4	4	4	2	2	3	3
	C	3	4	4	5	2	2	3	3
	D	2	3	3	3	2	2	2	2
	E	3	3	3	4	2	2	2	2
67	A	7	8	8	9	4	5	5	6
	B	4	5	5	6	3	3	3	4
	C	5	5	6	6	3	3	4	4
	D	3	4	4	4	2	2	2	3
	E	3	4	4	5	2	2	3	3

TMW= TRIBUTARY MODULE WIDTH



MANUFACTURER:



Aluminum & Glass Co. Inc.

10200 NW 67th STREET
TAMARAC - FLORIDA
TEL.: (800) 432-8132
FAX.: (954) 724-9293



IFG 5000 SERIES
STOREFRONT WINDOW
LARGE & SMALL MISSILE IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33313
ENGCO@AOL.COM

JUL 07 2009

Engineer Seal
Pedro De Figueiredo
PE 52609

DRAFTING:

PK DRAFTING & MORE

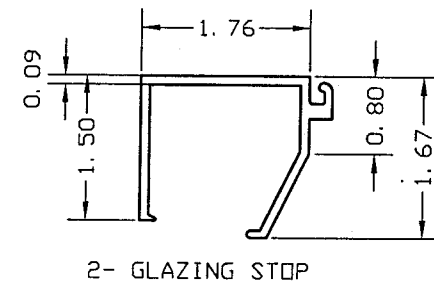
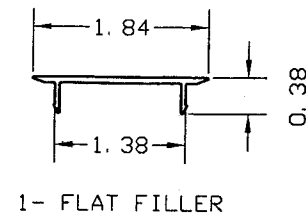
MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0728.02
Expiration Date Oct. 21, 2014
By: *Manuel Perez*
Miami-Dade Product Control
Division

Date: 06/01/09
Scale: NA
Design by: PPMF

Drawing Number
09-109

SHEET
4 of 5



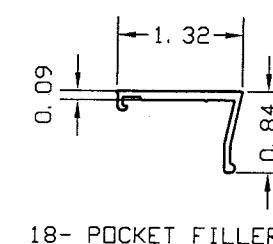
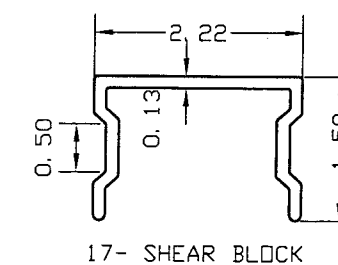
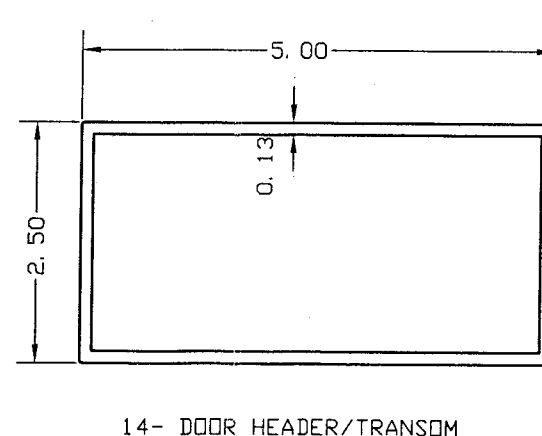
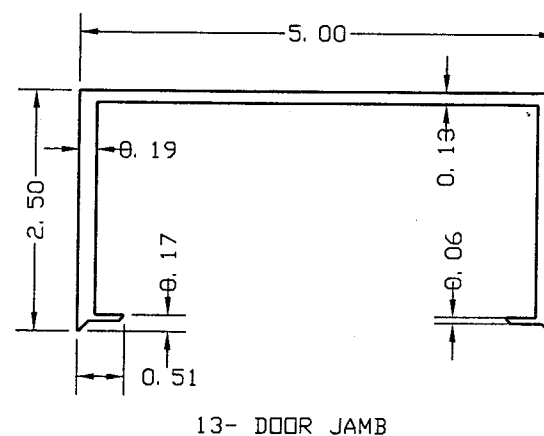
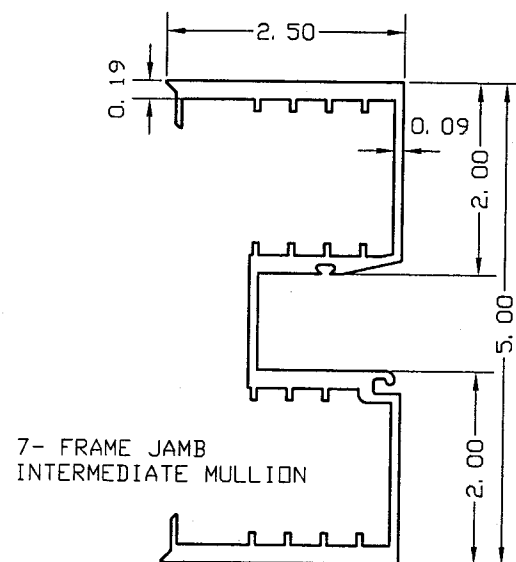
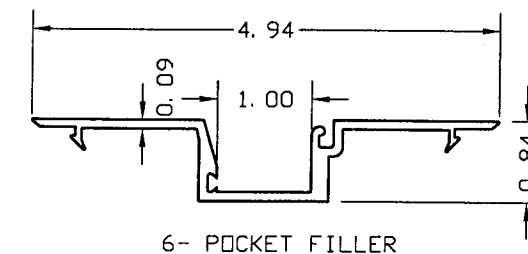
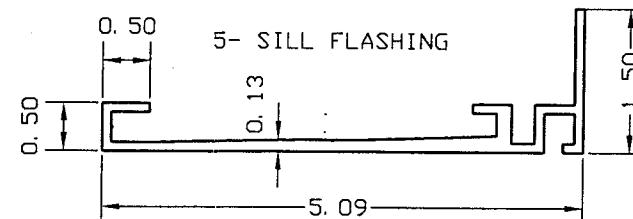
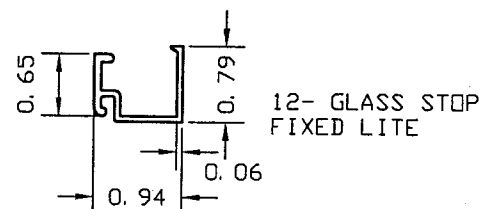
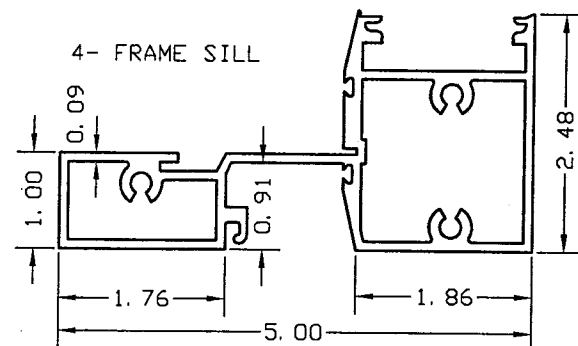
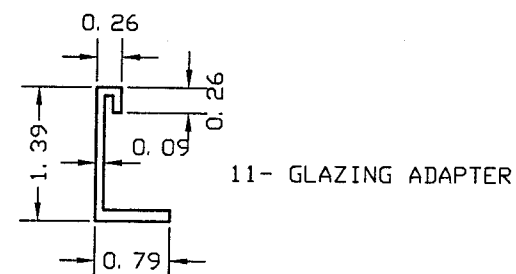
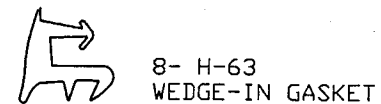
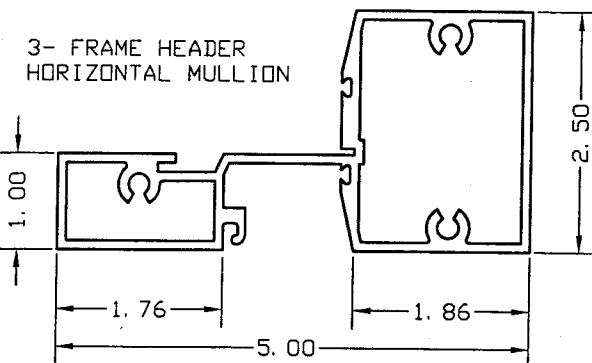
FRAMING COMPONENTS & BILL OF MATERIAL

ITEM#	PART #	DESCRIPTION	MATERIAL	SUPPLIER/REMARKS
1	50507	FLAT FILLER	6063-T6	ARCH ALUMINUM
2	50503	GLAZING STOP	6063-T6	ARCH ALUMINUM
3	50504	HEADER/MULL	6063-T6	ARCH ALUMINUM
4	50502	SILL	6063-T6	ARCH ALUMINUM
5	50505	SILL FLASHING	6063-T6	ARCH ALUMINUM
6	50506	POCKET FILLER	6063-T6	ARCH ALUMINUM
7	50510	JAMB/ MULL	6063-T6	ARCH ALUMINUM
8	H-63	WEDGE-IN GASKET	NEOPRENE	UNIVERSAL RUBBER
9	V2100	TAPE 3/8x1/4	-	NORTON
10	995	STRUCTURAL SILICONE	-	DOW CORNING
11	3008	GLAZING ADAPTER	6063-T6	ARCH ALUMINUM
12	3009	FIXED LITE STOP	6063-T6	ARCH ALUMINUM
13	50512	DOOR JAMB	6063-T6	ARCH ALUMINUM
14	50513	DOOR HEADER/TRANSOM	6063-T6	ARCH ALUMINUM
15		#12-24x3/4 PFHMS (UNDERCUT)	SS	
16		1/4-20x5/8 PPHMS	SS	
17	38424	SHEAR BLOCK	6063-T6	ARCH ALUMINUM
18	AGA881	FLAT POCKET FILLER	6063-T6	ARCH ALUMINUM

RECOMMENDED PERIMETER SEALANTS

ITEM#	DESCRIPTION
1	DOW CORNING 795 SILICONE SEALANT
2	TREMCO SPECTREM 2 SILICONE SEALANT
3	TREMCO SPECTREM 3 SILICONE SEALANT
4	TREMCO DYMERIC 240 POLYURETHANE SEALANT

NOTE: ANY SEALANT WITH JOINT MOVEMENT CAPABILITY (ASTM C719) OF 50% OR GREATER IS ACCEPTABLE FOR USE.



MANUFACTURER:



Aluminum & Glass Co. Inc.

10200 NW 67th STREET
TAMARAC - FLORIDA
TEL.: (800) 432-8132
FAX.: (954) 724-9293



IFG 5000 SERIES
STOREFRONT WINDOW
LARGE & SMALL MISSILE IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33313
ENGCO@AOL.COM

JUL 07 2009

Engineer Seal
Pedro De Figueiredo
PE 52609

DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0723.02
Expiration Date 02.21.2014
By *Manuel Perez*
Miami Dade Product Control
Division

Date: 06/01/09
Scale: NA
Design by: PPMF

Drawing Number
09-109

SHEET
5 of 5